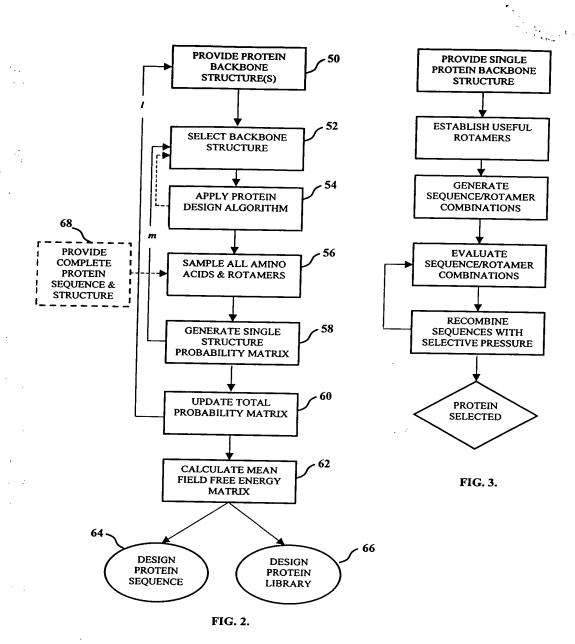


FIG. 1.



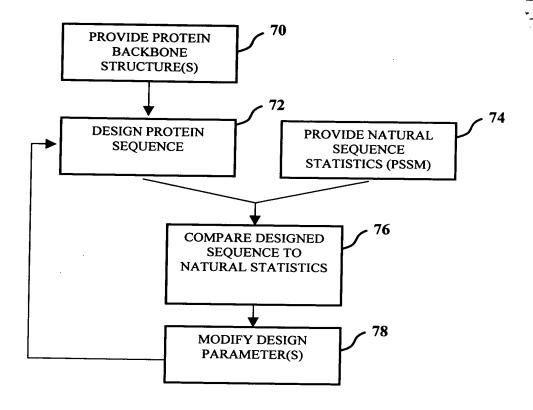


FIG. 4.

5.7 1.9 50 6.5 50 50 1 8.7 3.5 6 7.1 4.9 20 6.1 6 6 17 4.4 20 2 9. 11 17 6.1 14 28 27 5.5 3.2 2.2 50 5 11 3.1 10 26 14 20 23 19 8.7 8.2 13 1.7 20 5.8 22 7 3.1 6.8 19 48 **4**.9 10 10 5.1 48 14 20 15 17 . 20 15 12 20 20 25 15 15 16 2 0.8 3.7 4.4 4.9 20 20 2.4 2.2 3.5 5.5 7.3 4.7 5.4 4.1 5.1 4 5.5 8.9 8.9 11 2.8 0.9 8.1 2.8 9.3 6.8 1 3.5 3.5 3.9 7 1 1.5 2.3 8.3 2.2 3.4 4.8 2.4 (0.5, 0) 9 22 3.7 3.5 9.2 8.2 2.4 3.5 018 02 20 3.2 4.2 20 22 20 2.3 2.3 5.1 4.7 4.2 7.1 7.2 8 9 8.9 13 12 20 11 19 9.2 19 11 19 50 19 20 19 20 18 20 18 20 11 30 20 19 4 3.8 2 2 K 4.8 6.7 7.1 L 50 001 9.5 2 M 50 3.1 11 14 N 0.6 20 5.9 4 P 11 20 001 7.1 Q 2.8 11 6.2 4.2 R 2.6 11 5.5 4.6 S 0.8 9.6 6.4 001 <u>S</u> 4.4 20 4.1 16 ည 22 20, 20

P S G W T Q L T K A S D D T T Y Y Y N K T T D V

FIG. 5.

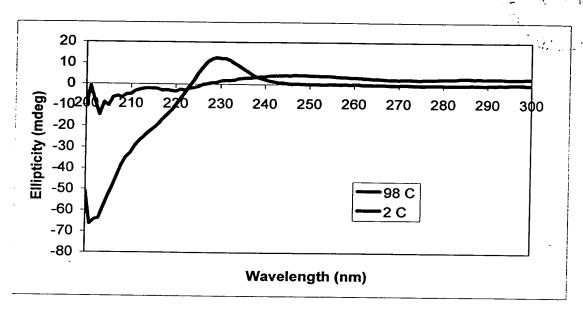


FIG. 6.

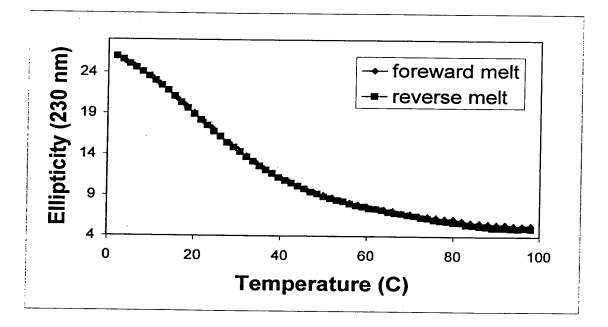


FIG. 7.

E	T		0	•
r		₩.		А

library design using free energy limits

complexity $\sim 10^5$

SLPSGWTQLTKASDDTTYYYNKTTDVVTNTRPTD N K K SG N Q SN K N N

Q

D P E V S E R

FIG. 8B.

complexity $\sim 10^8$

SLPSGWTQLTKASDDTTYYYNKTTDVVTNTRPTD

N KQK SGNNSV F Q SNTKQD N 1
D P E E QT Q
E V S
E

R N

FIG. 8C.

library design using probability limit

complexity $\sim 10^5$

SLPSGWTQLTKASDDTTYYYNKTTDVVTNTRPTD N K K SGNN V F Q SN KQ N N D

FIG. 8.